AMENDMENTS TO THE CLAIMS

1-10. (Cancelled)

11. (Currently Amended) A ~~The~~ wireless communication system ~~of claim 10~~ comprising:

a radio module operable to communicate data between a host and at least one external device;

at least one digital module operable to process data communicated by said radio module;

a clock generator for generating first and second clock signals for use by said digital module;

a timer operable to count clock cycles of said first and second clock signals;

power management logic operable to:

control said clock generator to cause said clock generator to generate said first clock signal when said wireless communication system is operating in a first power mode and to generate said second clock signal when said wireless communication system is operating in a second power mode; and

calibrate the frequency of said clock generator while said wireless communication system is operating in said second power mode; and

a timer management module operable to maintain a cumulative count of the number of clock cycles counted by said timer during a predetermined time interval, wherein said timer is operable to count the number of clock cycles for said first clock when said wireless communication system is operating in said first power mode and is further operable to count the number clock cycles for said second clock signal when said wireless communication system is operating in said second power mode;

wherein the number of clock cycles counted by said timer when said wireless communication system is operating in said second power mode is

converted to an equivalent number of clock cycles that would have been generated by said first clock by using an adjustment factor based on the number of cycles said first clock would generate during a single cycle of said second clock.

12. (Cancelled)

13. (Currently Amended) A ~~The~~ wireless communication system, ~~of claim 12~~ comprising:

a radio module operable to communicate data between a host and at least one external device;

at least one digital module operable to process data communicated by said radio module;

a clock generator for generating first and second clock signals for use by said digital module;

a timer operable to count clock cycles of said first and second clock signals, said timer operable to count the number of clock cycles for said first clock when said wireless communication system is operating in said first power mode and said timer does not count the number of clock cycles for said first clock signal when said wireless communication system is operating in said second power mode;

a timer management module operable to maintain a cumulative count of the number of clock cycles counted by said timer during a predetermined time interval, wherein said timer management module is operable to generate updated timing information using information provided by said power management logic regarding the duration of the time interval that said wireless communication system is operating in said second power mode; and

power management logic operable to:

control said clock generator to cause said clock generator to generate said first clock signal when said wireless communication system is

operating in a first power mode and to generate said second clock signal when said wireless communication system is operating in a second power mode; and

calibrate the frequency of said clock generator while said wireless communication system is operating in said second power mode.

14-23. (Cancelled)

24. (Currently Amended) A ~~The~~ method ~~of claim 23~~ of managing power in a wireless communication system having a radio module operable to communicate data between a host and at least one external device and at least one digital module operable to process data communicated by said radio module, the method comprising:

generating a high-frequency first clock signal for use by said digital module when said wireless communication system is operating in a first power mode and a lower frequency second clock signal for use by said digital module when said wireless communication system is operating in a second power mode; and

using power management logic to:

control said clock generator to cause said clock generator to generate said first clock signal when said wireless communication system is operating in a said first power mode and to generate said second clock signal when said wireless communication system is operating in said second power mode; and

calibrate the frequency of said clock generator while said wireless communication system is operating in said second power mode

using a timer to count clock cycles of said first and second clock signals;

using said timer to count the number of clock cycles for said first clock when said wireless communication system is operating in said first power mode and using said timer to count the number clock cycles for said second clock signal when said wireless communication system is operating in said second power mode;

and

using a timer management module to maintain a cumulative count of the number of clock cycles counted by said timer during a predetermined time interval, wherein the number of clock cycles counted by said timer when said wireless communication system is operating in said second power mode is converted to an equivalent number of clock cycles that would

have been generated by said first clock by using an adjustment factor based on the number of cycles said first clock would generate during a single cycle of the said second clock.

25. (Cancelled)

26. (Currently Amended) A ~~The~~ method ~~of claim 25, further~~ of managing power in a wireless communication system having a radio module operable to communicate data between a host and at least one external device and at least one digital module operable to process data communicated by said radio module, the method comprising:

generating a high-frequency first clock signal for use by said digital module when said wireless communication system is operating in a first power mode and a lower frequency second clock signal for use by said digital module when said wireless communication system is operating in a second power mode; and

using power management logic to:

control said clock generator to cause said clock generator to generate said first clock signal when said wireless communication system is operating in a said first power mode and to generate said second clock signal when said wireless communication system is operating in said second power mode; and

calibrate the frequency of said clock generator while said wireless communication system is operating in said second power mode

using a timer to count clock cycles of said first and second clock signals, wherein said timer counts the number of clock cycles for said first clock when said wireless communication system is operating in said first power mode and said timer does not count the number of clock cycles for said first clock signal when said wireless communication system is operating in said second power mode;

using a timer management module to maintain a cumulative count of the number of clock cycles counted by said timer during a predetermined time interval; and

using said timer management module to generate updated timing information using information provided by said power management logic regarding the duration of the time interval that the wireless communication system is operating in said second power mode.